

**His-Tag (27E8) Mouse mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, W-S, IP	<b>Reactivity:</b> All	<b>Sensitivity:</b> Transfected Only	<b>Source/Isotype:</b> Mouse IgG1
<b>Product Usage Information</b>	<b>Application</b>		<b>Dilution</b>
	Western Blotting		1:1000
	Simple Western™		1:10 - 1:50
	Immunoprecipitation		1:200
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.		
<b>Specificity/Sensitivity</b>	His-Tag (27E8) Mouse mAb detects recombinant proteins containing the 6xHis epitope tag. The antibody recognizes the 6xHis-tag fused to either the amino or carboxy terminus of targeted proteins in transfected cells. The antibody may cross-react with a protein of unknown origin ~60-70kDa.		
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a 6xHis synthetic peptide.		
<b>Background</b>	Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties.		
	A variety of plasmids contain DNA that encodes an amino-terminal tag consisting of six histidine (6xHis) residues followed by an extended multiple cloning site. The 6xHis tag on the expressed recombinant proteins allows for efficient coupling to Ni <sup>2+</sup> affinity resins and purification by single step chromatography (1).		
	As is the case with other protein tag systems (2), this polyhistidine tag can often be cleaved at sites recognized by proteases such as thrombin and enterokinases to isolate the protein of interest (1).		
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Kroll, D.J. et al. (1993) <i>DNA Cell Biol</i> 12, 441-53.</li> <li>2. di Guan, C. et al. (1988) <i>Gene</i> 67, 21-30.</li> </ol>		
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.		
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>W-S:</b> Simple Western™ <b>IP:</b> Immunoprecipitation		
<b>Cross-Reactivity Key</b>	<b>All:</b> All Species Expected		
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